

MARA UNIVERSITY OF TECHNOLOGY

FINAL YEAR PROJECT REPORT

'MAINTANANCE OF GEARBOX'

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Chapter 1

Introduction

General

One of the important aspects of automotive technology is in the transmission system. Transmission is the system that transmits power from the engine to the wheels. This includes the clutch, gearbox, propeller shaft, universal joint, final drive and differential. The transmission is a machine featuring either simple or planetary gear arrangements for adapting available engine power to road and load conditions (weight, speed and road terrain). It acts as a torque and speed changer by providing suitable gear ratio changes, three-, four-, and five speed systems that permit the engine to move the load efficiently. For vehicle operating purposes, it must also provide for reverse, neutral and engine during deceleration.

All this parts required periodic maintenance especially gearbox. Maintenance based on the word maintain that means to keep or continue to have a machine, buildings, etc in a good condition. The most importance maintenance of the transmission is the lubrication system.